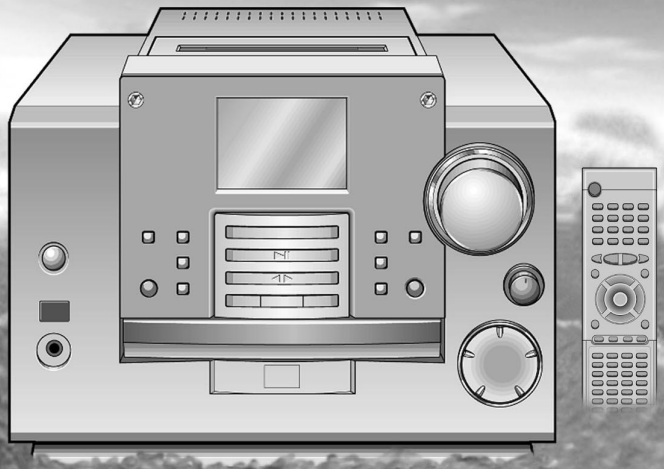
SAMSUNG

MICRO COMPONENT
DVD AUDIO SYSTEM

DVD/CD-R/RW/MP3-CD PLAYBACK

MM-DB9

Instruction Manual



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Safety Warnings

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CLASS 1 LASER PRODUCT
KLASSE 1 LASER PRODUKT
LUOKAN 1 LASER LAITE
KLASS 1 LASER APPARAT
PRODUCTO LASER CLASE 1

CAUTION
RISK OF ELECTRIC SHOCK.
DO NOT OPEN

CAUTION:
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE REAR COVER. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

CLASS 1 LASER PRODUCT

This Compact Disc player is classified as a CLASS 1 LASER product.

Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

CAUTION-INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED, AVOID EXPOSURE TO BEAM.

This symbol indicates that dangerous voltage which can cause electric shock is present inside this unit.

This symbol alerts you to important operating and maintenance instructions accompanying the unit.

WARNING: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

Wiring the Main Power Supply Plug(UK Only)

IMPORTANT NOTICE

The main lead on this equipment is supplied with a moulded plug incorporating a fuse. The value of the fuse is indicated on the pin face of the plug and if it requires replacing, a fuse approved to BS1362 of the same rating must be used.

Never use the plug with the fuse cover removed. If the cover is detachable and a replacement is required, it must be of the same colour as the fuse fitted in the plug. Replacement covers are available from your dealer.

If the fitted plug is not suitable for the power points in your house or the cable is not long enough to reach a power point, you should obtain a suitable safety approved extension lead or consult your dealer for assistance.

However, if there is no alternative to cutting off the plug, remove the fuse and then safely dispose of the plug. Do not connect the plug to a main socket as there is a risk of shock hazard from the bared flexible cord.

Never attempt to insert bare wires directly into a main socket. A plug and fuse must be used at all times.

IMPORTANT

The wires in the main lead are coloured in accordance with the following code:–

BLUE = NEUTRAL BROWN = LIVE

As these colours may not correspond to the coloured markings identifying the terminals in your plug, proceed as follows:–

The wire coloured BLUE must be connected to the terminal marked with the letter N or coloured BLUE or BLACK.
The wire coloured BROWN must be connected to the terminal marked with the letter L or coloured BROWN or RED.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E OR BY THE EARTH SYMBOL ⏚ , OR COLOURED GREEN OR GREEN AND YELLOW.

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Thank you for buying this SAMSUNG micro component system.

Please take time to read these instructions. They will allow you to operate your system with ease and take full advantage of its features.

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Symbols

Press

Push

Important

Note

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Front Panel View

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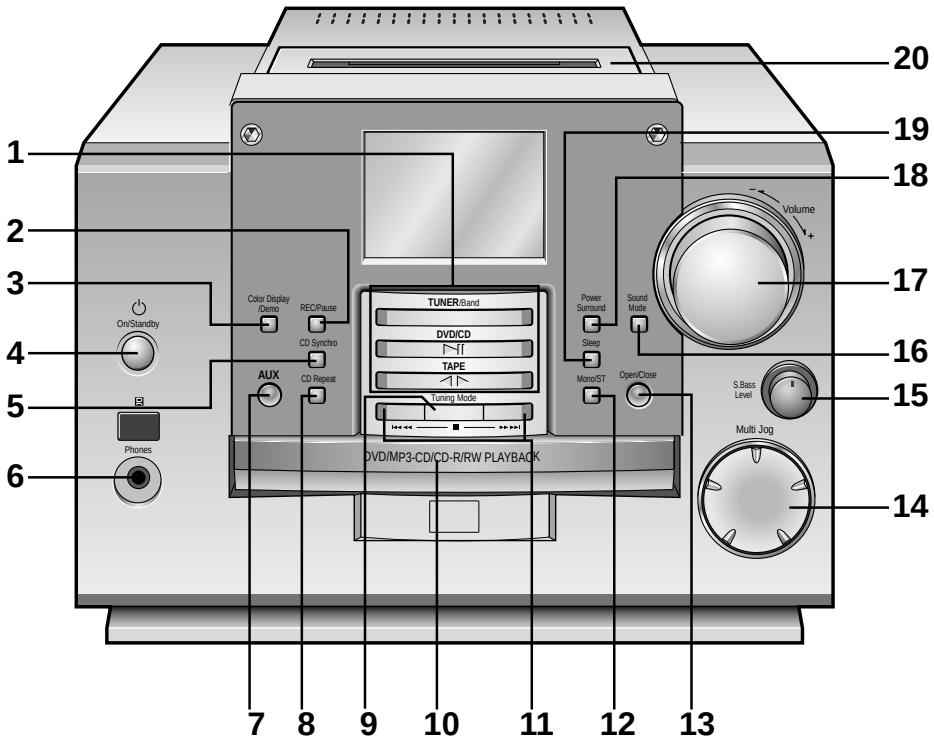

1. Function (TUNER, DVD/CD,TAPE)
2. REC/Pause
3. Color Display/Demo
4. On/Standby
5. CD Synchro
6. Headphone Jack Connector
7. AUX
8. CD Repeat
9. Stop
10. DIsc Tray
11. Skip or Search
12. Mono/ST
13. CD Door open/close
14. Multi Jog
15. S.Bass Level
16. Sound Mode
17. Volume
18. Power Surround
19. Sleep
20. Push Eject (Cassette Door Open/Close)

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Rear Panel View

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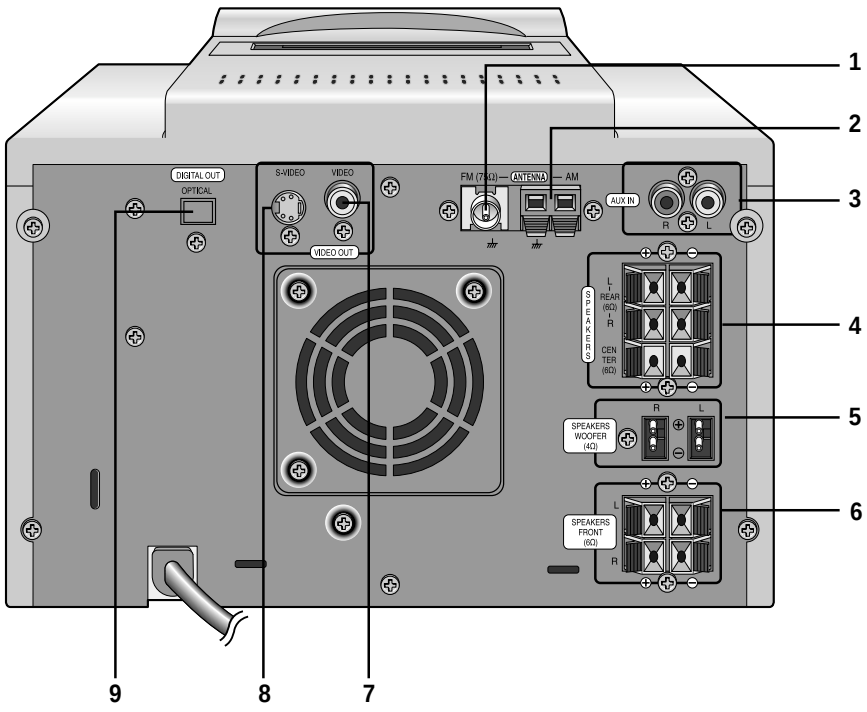

1. **FM Aerial Connector Terminal**
2. **AM Aerial Connector Terminal**
3. **AUX-Input**
4. **REAR Speaker / CENTER Speaker**
5. **SUBWOOFER Speaker**
6. **FRONT Speaker**
7. **VIDEO OUT**
8. **S-VIDEO OUT**
9. **CD Digital Out jack**

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Remote Control

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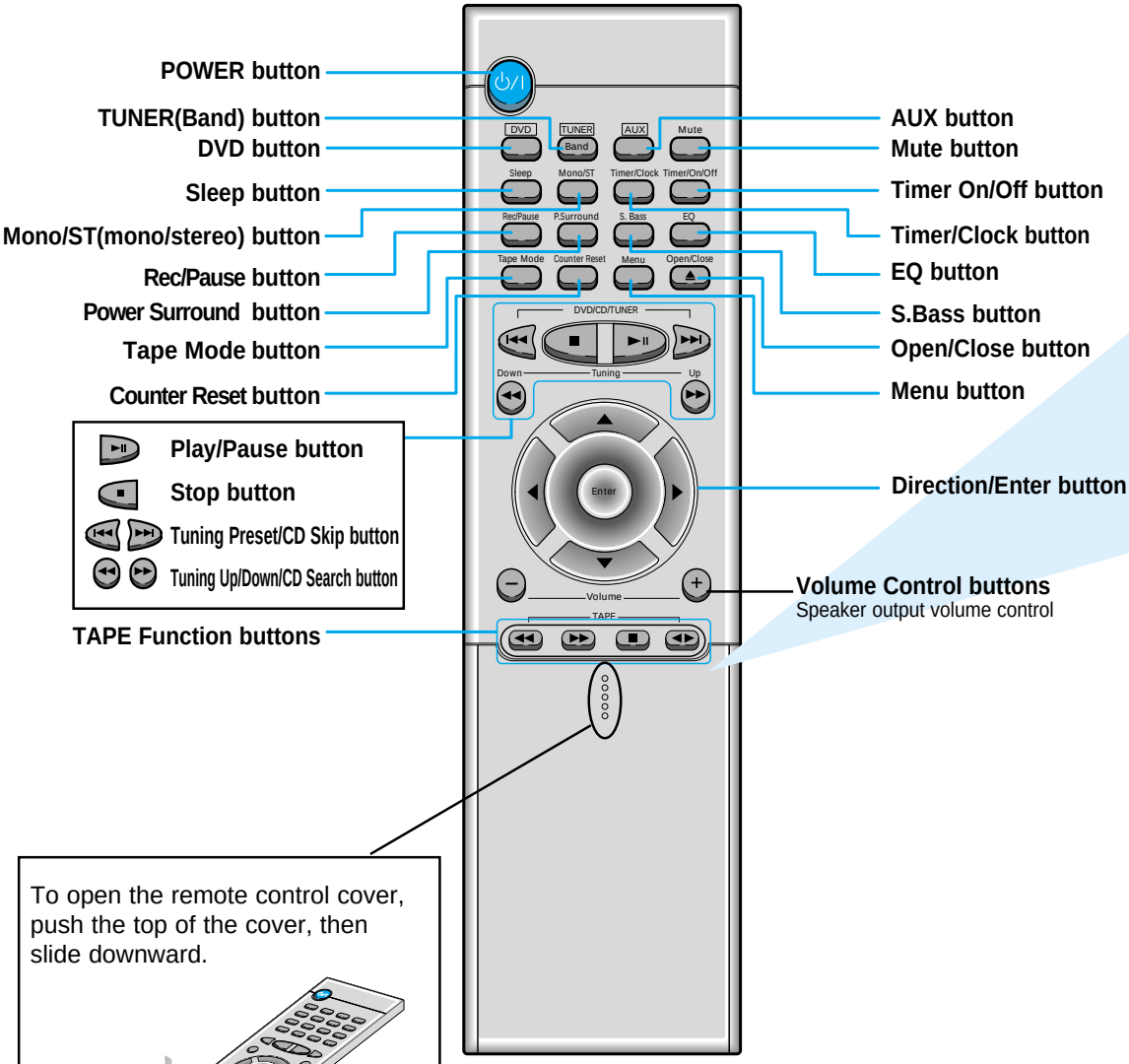
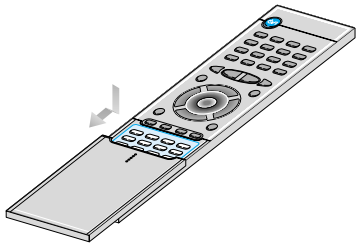


To open the remote control cover, push the top of the cover, then slide downward.



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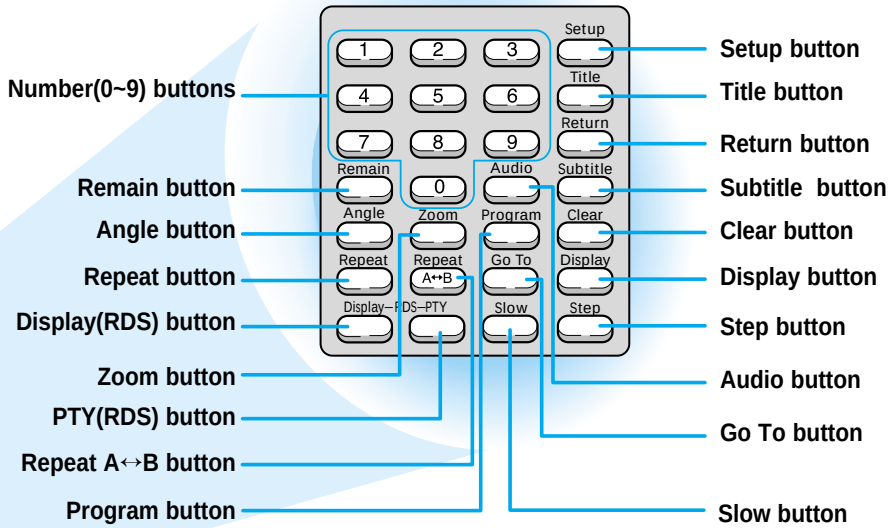
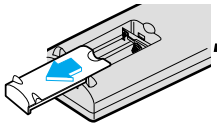
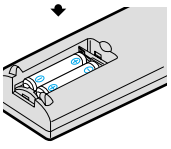


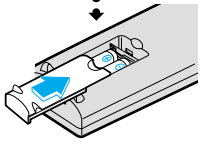
Insert Remote Batteries



1 Remove the battery cover on the back of the remote by pressing down and sliding the cover in the direction of the arrow.



2 Insert two 1.5V AAA batteries, paying attention to the correct polarities (+ and –).



3 Replace the battery cover.

CAUTION

Follow these precautions to avoid leaking or cracking cells:

- Place batteries in the remote control so they match the polarity:(+) to (+)and (–)to (–).
- Use the correct type of batteries.Batteries that look similar may differ in voltage.
- Always replace both batteries at the same time.
- Do not expose batteries to heat or flame.

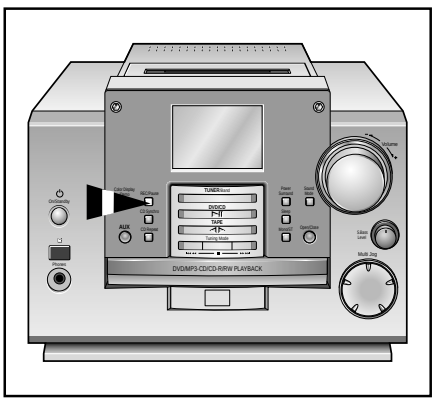
Video Output Selection

- Press the **REC/Pause** button in POWER OFF, then it is converted to

" NTSC → PAL " and select the TYPE you want.

Example : Select PAL, if TV is for PAL.

When disk is set to NTSC in PAL, it doesn't operate.



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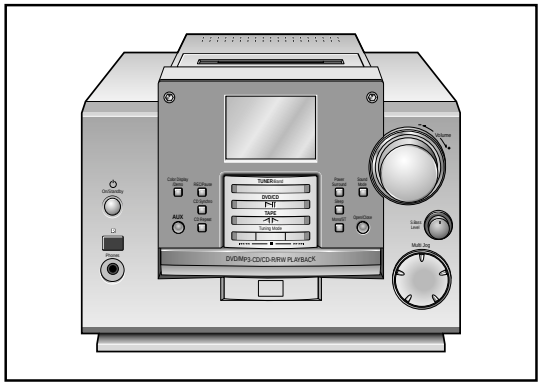
Where to Install Your Micro Component System

To take full advantage of your new micro component system, follow these installation instructions before connecting the unit.

- Install the system on a flat, stable surface.
- Never place this unit on carpeting.
- Never place this unit in an outdoor area.
- Maintain an open space of approximately 6 inches (15 cm) on the sides and rear of the system, for ventilation purposes.
- Make sure that you have enough room to open the compact disc compartment easily.
- Place the loudspeakers at a reasonable distance on either side of the system to ensure good stereo sound.
- Direct the loudspeakers towards the listening area.
- For optimum performance, make sure that both speakers are placed at an equal distance above the floor.

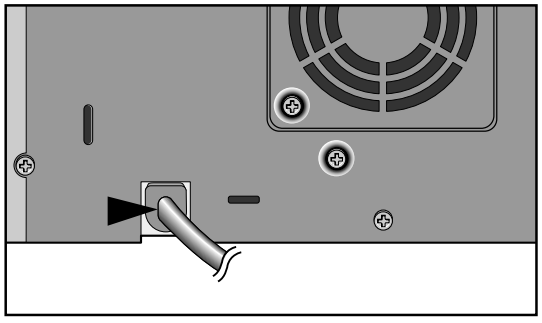


Connecting your System to the Power Supply

The main lead must be plugged into an appropriate socket.

Before plugging your system into a main socket, you must check the voltage.

1. Plug the main lead (marked **AC Cord** on the rear of the system) into an appropriate socket.
2. Press the **On/Standby(⏻)** button to switch your micro component system on.



Connecting to an External Source

The auxiliary input can be used to take advantage of the sound quality of your micro component system when listening to other sources.

Examples:
- A television
- A video disc player
- A Hi-Fi stereo video cassette recorder

To connect the external source, the source must have an audio output. In addition, you need an RCA connection cable.

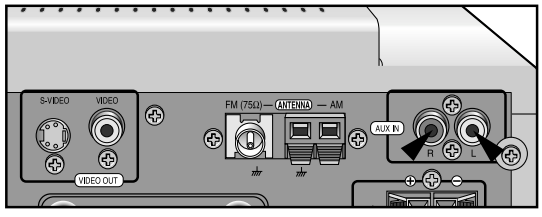
1. Set the system to standby mode and disconnect it and the external source from the main.
2. Connect the audio cable to the rear of the micro component system.

Connect the...	To the connector marked...
Red jack	R (right)
White jack	L (left)

For optimum sound quality, do not invert the right and left channels.

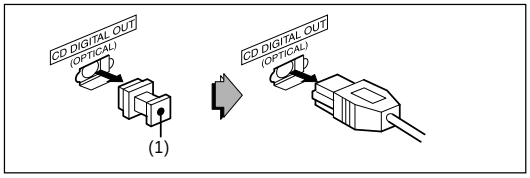
3. Plug the system back into the main socket and press **On/Standby** (⏻) to switch it on.
4. Select the AUX source by pressing **AUX**.
   Result: **AUX** is displayed.
5. Switch the external source on.
6. Adjust the volume and balance as required:
   - Volume
   - Equalizer
   - S.Bass

Example: You can watch a film and take advantage of stereo sound provided that the original sound track is in stereo (as if you were in a cinema).



CD Digital Out Jack

This unit can output CD digital sound signals through this jack. Use an optical cable to connect digital audio equipment. (DAT deck, MD recorder, etc.).
Remove the dust cap (1) from the CD DIGITAL OUT jack. Then, connect an optical cable plug to the CD DIGITAL OUT jack.



When the CD DIGITAL OUT jack is not being used.
Attach the supplied dust cap.

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Speaker Connection

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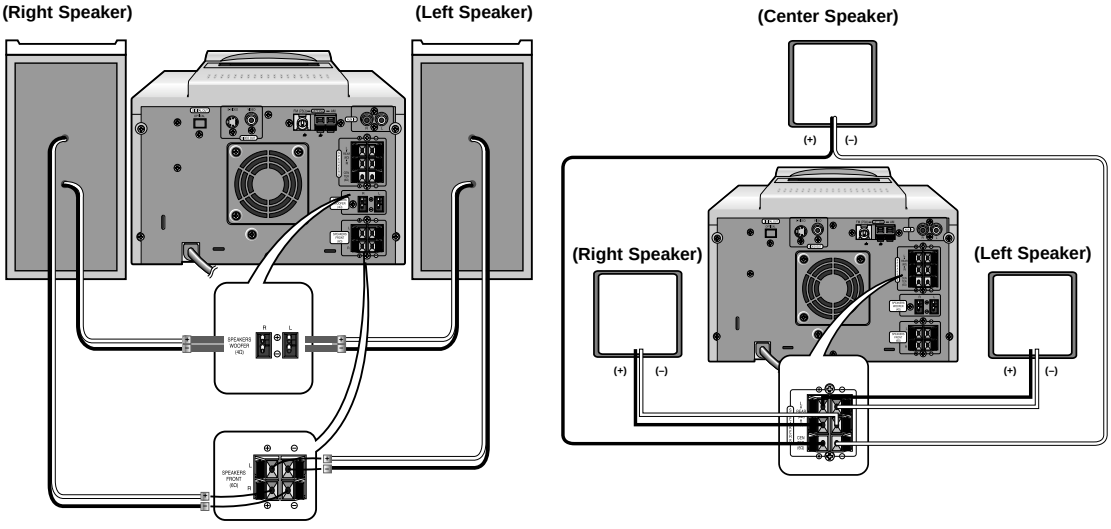
The System has Main Speaker jacks and Subwoofer Speaker jacks.

- Front Speaker Connection: Connect the Front Speaker cords (red/black) to the Main Speaker jacks of the System.
- Subwoofer Speaker Connection: Connect the Subwoofer Speaker cords (blue/black) to the Subwoofer Speaker jacks of the System.
- Center Speaker Connection: Connect the center speaker cord to the CENTER SPEAKER terminal.
- Rear Speaker Connection: There is no difference between the Rear speakers.
  Both speakers can be connected as R (right) or L (left).
  Connect the Rear speaker cords to the REAR SPEAKERS terminals.



Speaker Setting Methods

To ensure the finest performance from your Dolby Digital system, it is important to position the speakers correctly.

Front Speakers

Set the front speakers so that their tweeters (high-range) are aligned at about ear level and at a horizontal angle of 45° to the prime listening position.

Rear Speakers

Set the rear speakers further back, parallel to the walls, at 60 to 90 centimeters (2 to 3 feet) above prime listening position ear level.
If the space behind the listening position is insufficient (i.e., too close to the wall), place the rear speakers facing each other on either side.

Center Speaker

Ideally the center speaker should be positioned with its top surface flush with the front speakers. However, you may place the speaker either on top or near the bottom of your TV set.

Directions in Installing Speaker

- Installation in a place near heating apparatus, under direct lay of light or with high humidity may cause performance degradation of the speaker.
- Do not install on the wall or on a high place of pole or other unstable place to prevent any safety accident caused by falling of the speaker.
- Do not take the speaker apart from TV or computer monitor. The speaker near the TV or computer monitor may influence the quality of the screen display.

➢
- When playing back a 5.1 channel encoded DVD, sound is output from the center and rear speakers only.
- When playing back a 2 channel encoded DVD, CD, tape, or tuner, no sound is output from the center and rear speakers.

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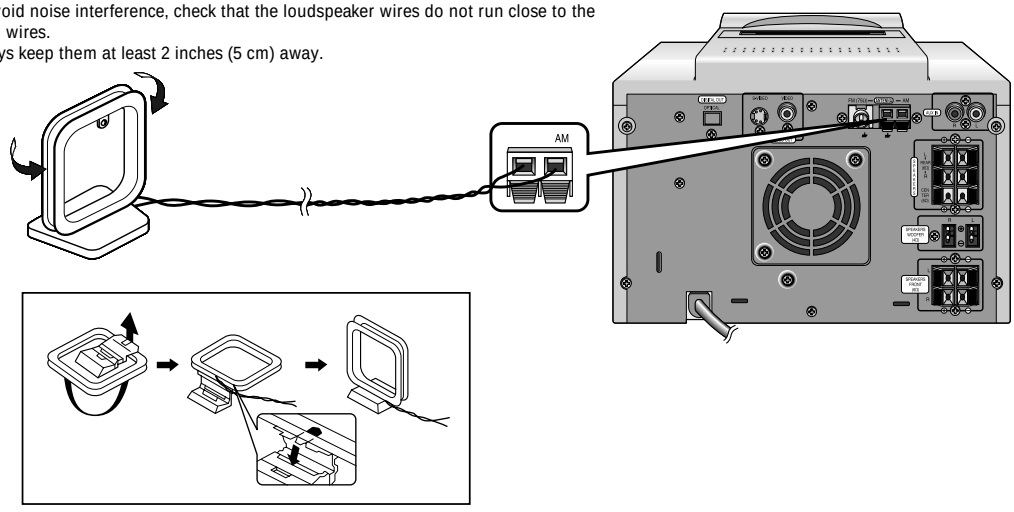
Connecting the AM (MW)/LW Aerial

The AM aerial (for long and medium waves) can be:

- Placed on a stable surface
- Fixed to the wall (you must first remove the base)

The **AM** aerial connector terminals are located on the rear of the system and are marked **AM** .

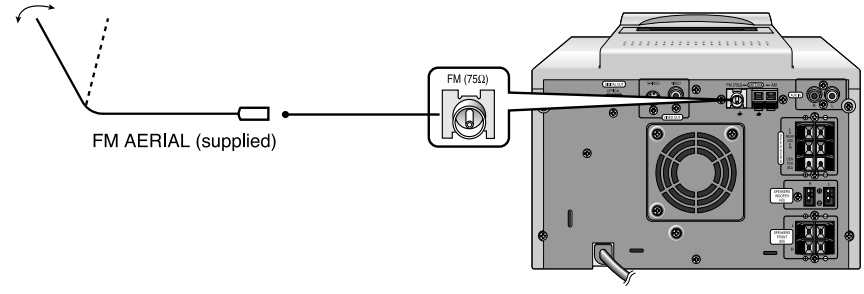
To avoid noise interference, check that the loudspeaker wires do not run close to the aerial wires.
Always keep them at least 2 inches (5 cm) away.

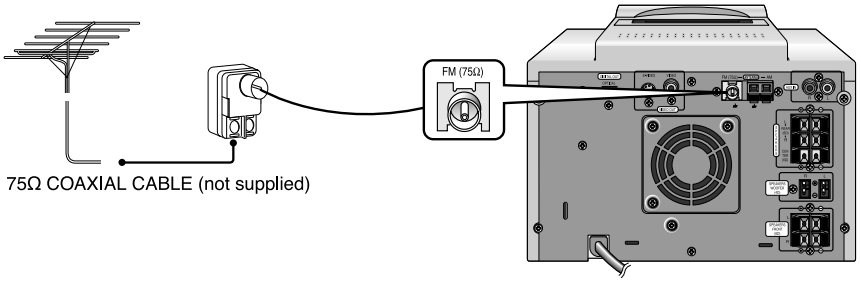


Connecting the FM Aerial

How to connect a COAXIAL TYPE aerial.

- Connect a 75Ω antenna to the **FM** antenna terminal.
- Plug the connector on the **FM** aerial supplied into the coaxial socket (75Ω) marked **FM** on the rear of the system.
- Follow the instructions given on Page 23 to tune into a radio station, and determine the best position for the aerial.
- If reception is poor, you may need to install an outdoor aerial.
  To do so, connect an outdoor **FM** aerial to the **FM** socket on the rear of the system using a 75Ω coaxial cable (not supplied).





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Connection of the TV monitor

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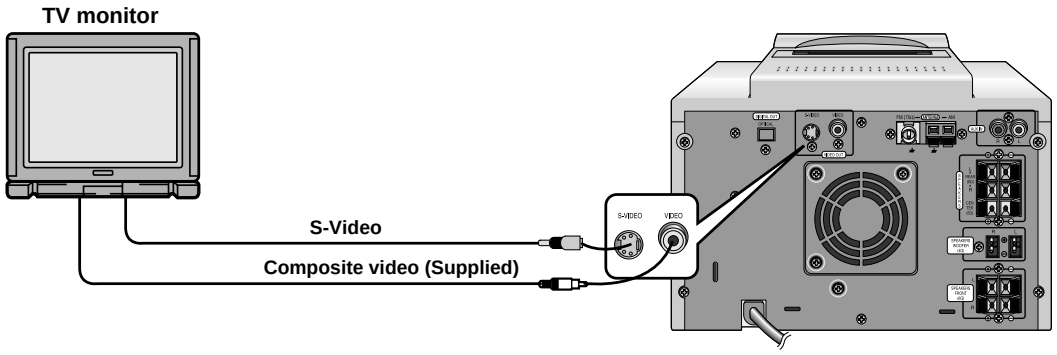
The following show examples of connections commonly used to connect the DVD player with a External Source.
(Example : TV, VCR, DAT CD-RW, etc)



➢ • When S-VIDEO is connected, S-VIDEO has priority.

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Connection for better sound

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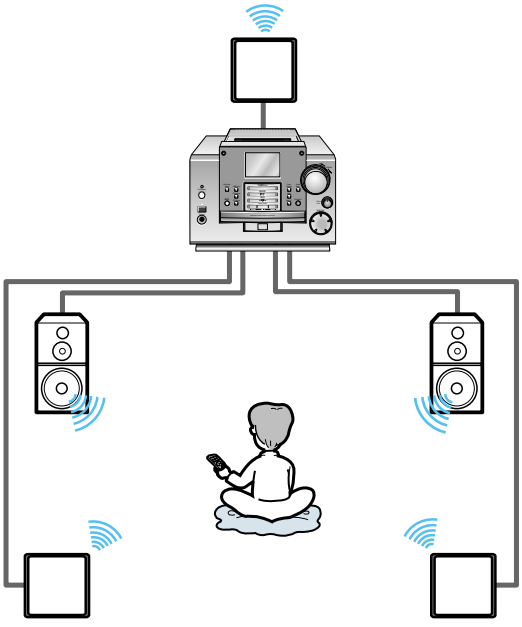
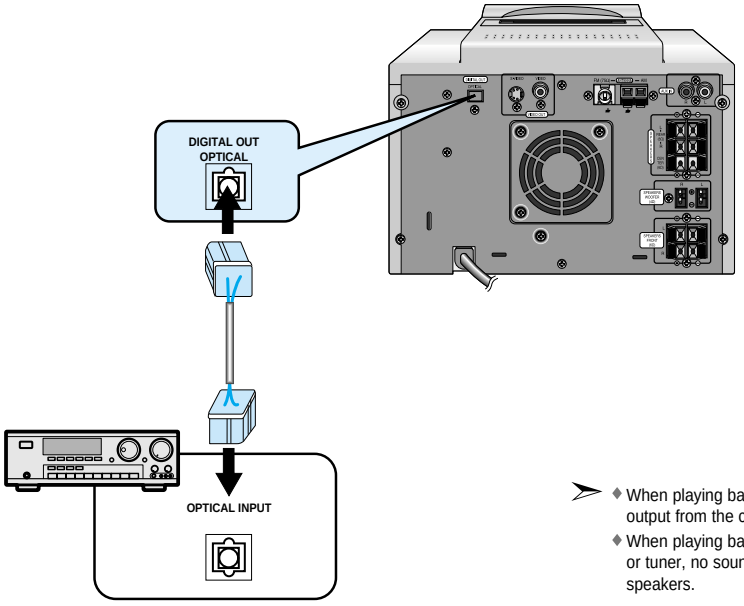
Connecting to an amplifier with Dolby Pro Logic support.

What is Dolby Pro Logic?
Using five speakers, it recreates the original sound of the music or audio and provides the sense of presence, as if you were in a movie theater or concert hall.





➢ When playing a DTS disc, no sound is produced. In such case, use an amplifier equipped with a DTS decoder.

➢
- When playing back a 5.1 channel encoded DVD, sound is output from the center and rear speakers only.
- When playing back a 2 channel encoded DVD, CD, tape, or tuner, no sound is output from the center and rear speakers.

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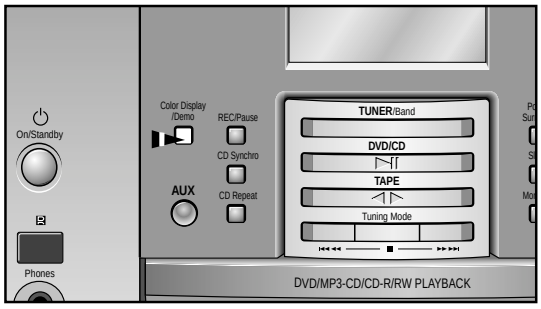
7-Color Display Function

The System allows you to choose your favorite color to produce your own personal atmosphere.

1 Switch the system on by pressing **On/Standby (⏻/I)**.

2 Press the **Color Display/Demo** button and select the color you want.
Result: Whenever the button is pressed, the color is repeated in the sequence of Cyan ➞ Green ➞ Red ➞ Blue ➞ Violet ➞ Y. Green ➞ White ➞ Off ➞ Auto.

3 If you select Auto mode, 7 colors are displayed for 3 seconds alternatively.



Demo Function

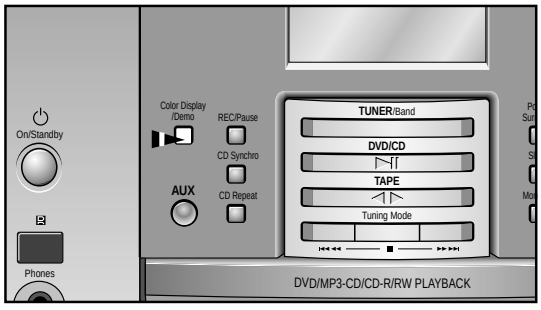
You can view the various functions available on your system.

1 Switch the system off by pressing **On/Standby (⏻/I)**.

2 Press the **Color Display/Demo** button.
Result: The various functions available are listed in turn on the display.

➢ All these functions are described in detail in this booklet. For instructions on how to use them, refer to the appropriate sections.

3 To cancel this function, press **Color Display/Demo** again.



Setting the Clock

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Your system is equipped with a clock which allows you to turn your system on and off automatically.
You should set the clock:

- When you first purchase the micro component system
- After a power failure
- After unplugging the unit

☛ For each step, you have a few seconds to set the required options. If you exceed this time, you must start again.

1 Switch the system on by pressing **On/Standby (⏻/I)**.

2 Press **Timer/Clock** twice.
Result: **CLOCK** is displayed.

3 Press **Enter**.
Result: The hour flashes.

4

To...	Press...
Increase the hours	▶
Decrease the hours	◀

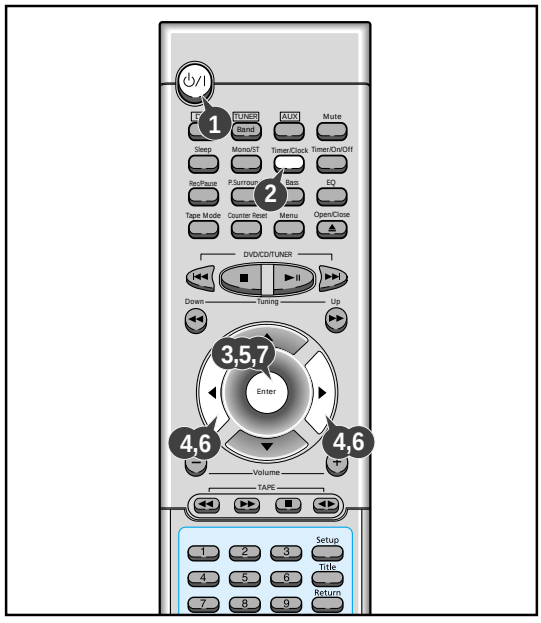
5 When the correct hour is displayed, press **Enter**.
Result: The minutes flash.

6

To...	Press...
Increase the minutes	▶
Decrease the minutes	◀

7 When the correct time is displayed, press **Enter**.
Result: The clock starts and is displayed, even when the system is in standby mode.

➢ You can display the time, even when you are using another function, by pressing Timer/Clock once.
You can use the Multi Jog to instead ◀ / ▶ button in step 4,6.



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Playing a Disc

Playback

1 Press the **Open/Close**(⏏) button.

2 Place a disc gently into the tray with the disc's label facing up.

3 Press the **Play/Pause**(▶II) button or **Open/Close**(⏏) button to close the disc tray.

♦ When playing back MP3-CD's, song titles are not displayed on the main unit, but on the TV screen.

Pausing Playback

Press the Play/Pause (▶II) button during playback.

♦ To resume, press the Play/Pause (▶II) button again.

♦ Depending on the disc, the initial disc information screen may look disc to disc.

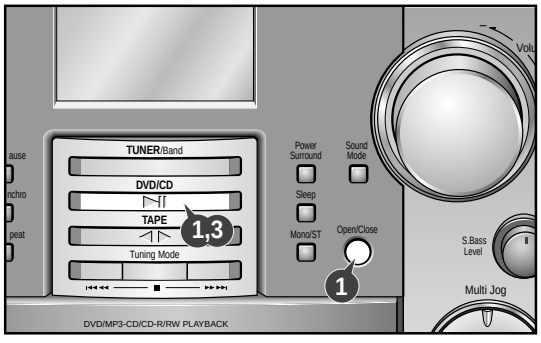
♦ When playing a DVD containing MPEG format, video may not be reproduced correctly and you may get picture distortion.

Stopping Playback

Press the Stop (■) button during playback.

♦ During playback, when the Stop (■)button is pressed, the position is stored in the memory, and ▶■ STOP is shown on the display. When the Play/Pause (▶II) button or Return button is pressed subsequently , playback resumes from the position at which it was stopped.

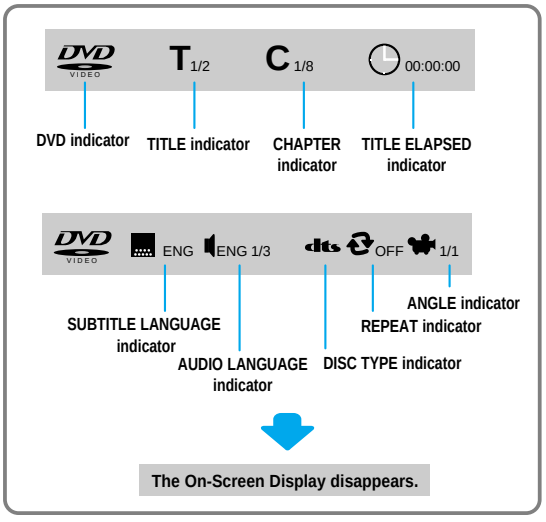
♦ If the Stop (■) button is pressed a second time, the resume play' memory function is canceled, and ■ STOP is shown on the display. When the Play/Pause (▶II)button is pressed, playback starts from the beginning.

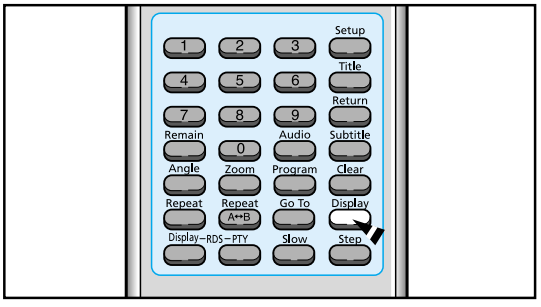


DVD Playback

Using the On-Screen Display

Press the **Display** button on the remote.





What is a Title?

♦ A movie contained in a DVD disc.

What is a Chapter?

♦ Each Title on a DVD disc is divided into several smaller sections called "chapters".

Turning the sound off temporarily?

Press the Mute button during playback.

♦ This operation may be useful when you need to greet the guests or answer the telephone.

♦ If the player is left for more than 3 minutes in pause mode, it will stop.

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Forward/Reverse Searching

GB

During playback, you can search quickly through a chapter or track for a specific scene or tune.

High-Speed Playback

Press the ◀◀ and ▶▶ button.

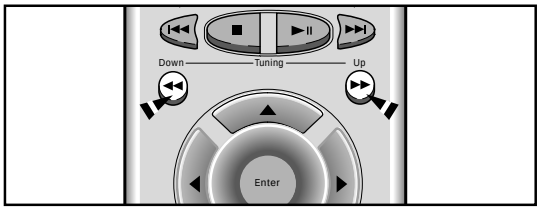
Each time the ◀◀ button is pressed

◀◀ X 2 → ◀◀ X 4 → ◀◀ X 8 → ▶ PLAY

Each time the ▶▶ button is pressed

▶▶ X 2 → ▶▶ X 4 → ▶▶ X 8 → ▶ PLAY

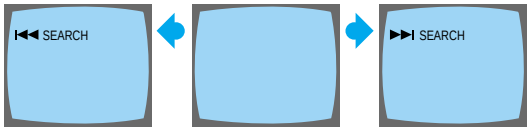
♦ **◀ playback (reverse playback) is possible on DVDs.**

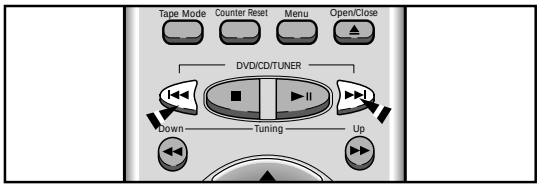


Skipping through a Chapter

Press the ⏮ and ⏭ button.

- **Each time the button is pressed during playback, it moves to the next or previous chapter and plays it.**
- **However, you cannot skip forward or backward through consecutive the chapters.**





Playing Frame by Frame

Press the Step button.

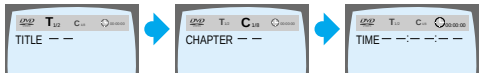
♦ The picture moves forward one frame each time the button is pressed.

♦ No sound is heard during high-speed playback and step motion.

To move directly to a title, chapter, or time

1 Press the **Go To** button.

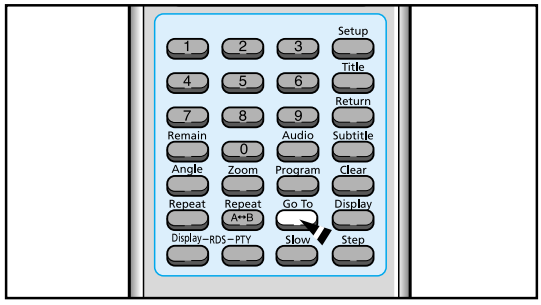
♦ Each time the button is pressed, it repeats as shown below.



2 Press **Number(0~9)** button or the **Left/Right** (◀/▶) button.

♦ Each The desired scene is located and then played.

♦ Depending on the disc, the Title function may not work.



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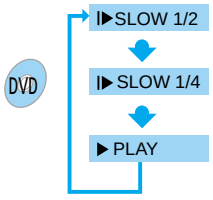
Slow Playback/Checking the Remaining Time

Playing Slowly

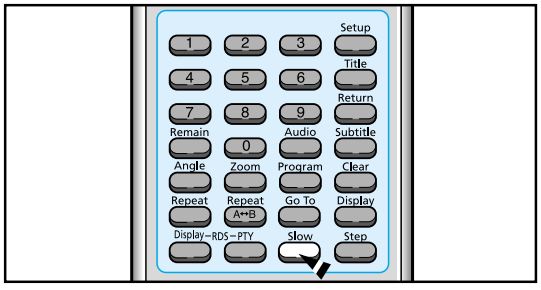
Press the **Slow** button.

Each time the Slow button is pressed



VCD

The slow playback speed changes and the selections (1/2X, 1/4X, 1/8X, 1/16X and normal play) are repeated.

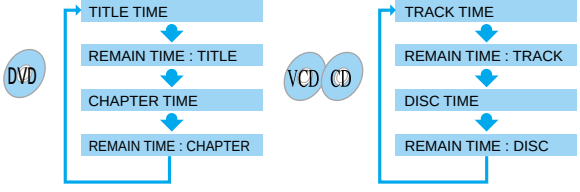


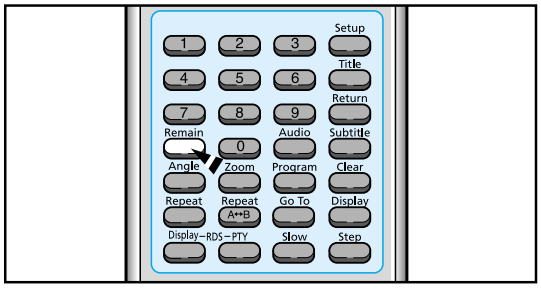
Checking the Remaining Time

Press the **Remain** button.

♦ For checking check the total time and the remaining time of a title or chapter being played.

Each time the Remain button is pressed





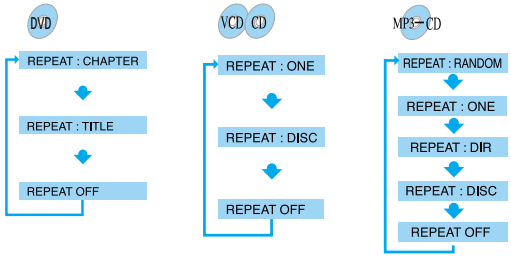
Repeat Playback

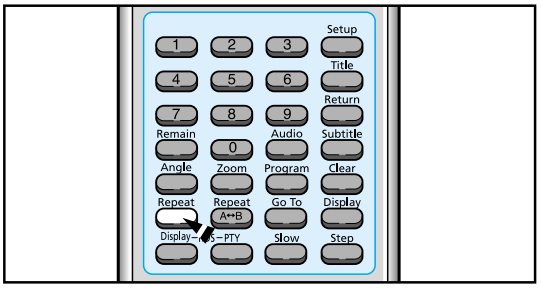
Repeat playback allows you to repeat a chapter, title, or track.

Playing Repeatedly

Press the **Repeat** button.

Each time the Repeat button is pressed



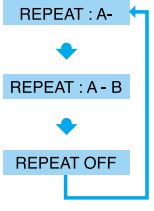


➢ ♦ Repeat playback operation is not possible with version 2.0 VCD discs if PBC is turned on.
To operate this feature, press the MENU button, and then select "PBC OFF".

A↔B Repeat Playback

1 Press the **Repeat A↔B** button at the beginning (A) of the segment you want to review.

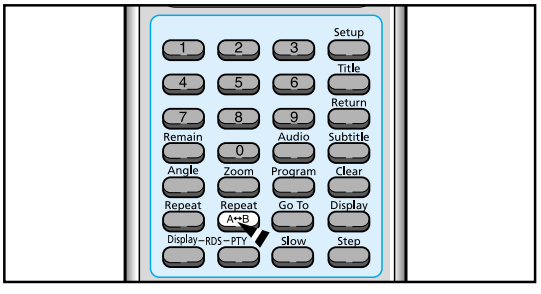
2 Press the **Repeat A↔B** button again at the end (B) of the segment you want to review.
♦ The segment will begin repeating.



To return to normal playback

Press the Repeat A↔B button again.

♦ This function is not only available during playback of an MP3-CD



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Using Disc Menu/Title

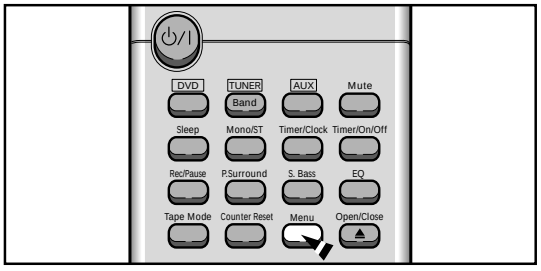
To Select the Disc Menu

You can use the menus for the audio language, subtitle language, profile, etc. DVD menu contents differ from disc to disc.

1 Press the **Menu** button during playback.
- The Menu Screen appears.
- When playing a VCD version 2.0, you can operate it using PBC On/Off function.

2 Use the **Up/Down** (▲/▼) or **Left/Right**(◀/▶) button to access the different features.

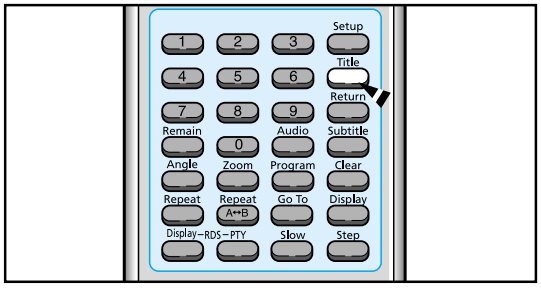
3 Press the **Enter** button.
- The selected item will play.



Using the Title Menu

Press the **Title** button.

- For DVDs containing multiple titles, you can view the title of each movie.
- Depending on the disc, this function may either not work at all, or may work differently.

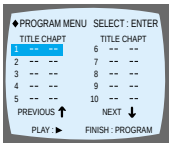


Program Playback

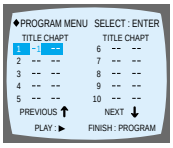
Use this function with video and music CDs to play the tracks in a particular order.

To Program Tracks in a particular order

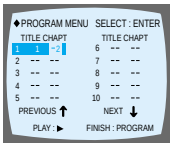
1 Press the **Program** button.



2 Press the **Enter** button then use the Number buttons to select the desired title.
- You can use also just the **Left/Right** (◀/▶/▲/▼) button.

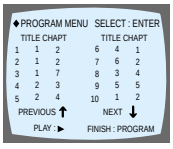


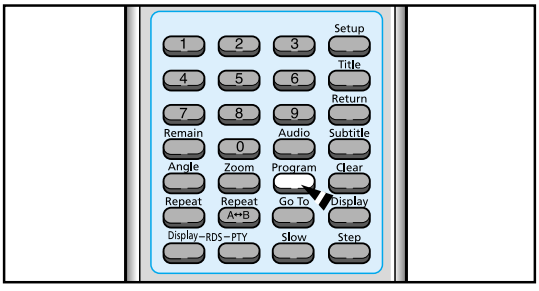
3 Press the **Enter** button, then use the Number buttons to select the desired chapter.
- You can use also just the **Left/Right** (◀/▶/▲/▼) button.



4 Press the **Enter** button.
- The selected track number is programming and the cursor moves to the next number.

5 At this time, you can continue programming if you want to.
- When programming more than 10 tracks, select and then press the **Enter** button. The program selection screen where you can program up to 10 additional tracks appears.





To Playback the Tracks in the Programmed Order

- Press the **Play/Pause** (▶II) button.

To Cancel the Programming

- Press either the **Program** button or **Stop** (■) button.

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Program Playback (Cont'd)

To Change the Program

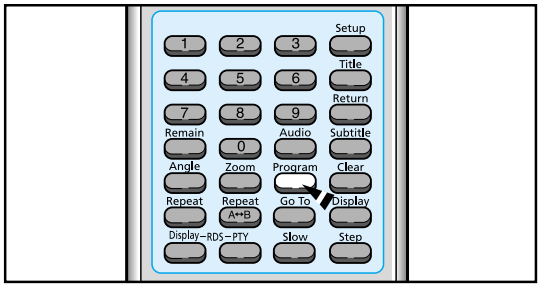
1 Press the **Up/Down** (▲/▼) button to select the track number to be changed.

2 Press the **Enter** button to select the title or chapter to be changed.
- The cursor moves to the next number when the **Enter** button is pressed again.

3 Press the **Clear** button and then press the **Number** buttons.
- You can use also just the **Left/Right** (◀/▶) button.

4 Press the **Enter** button.
- The cursor moves to the number below.

5 Repeat steps 1-4 above to change the program.



To delete the entire Program

- Press the **Stop** (■) button twice during playback.
- Press the **Stop** (■) button once when in the Stop mode.
- Press the **Open/Close** (▲) button on the main unit.
  The disc tray will open and then close. The program will then be deleted.

When you have entered a wrong number

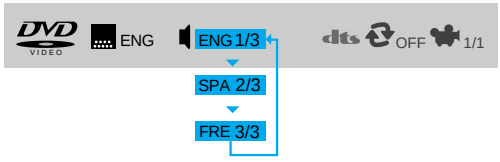
Press the Clear button.
- When you want to delete a selection during programming, select the track (or chapter, or title) to be deleted and then press the Clear button.

- The program function does not work with MP3 CDs.
- You can program or change particular tracks for VCD or CD discs in the same manner.

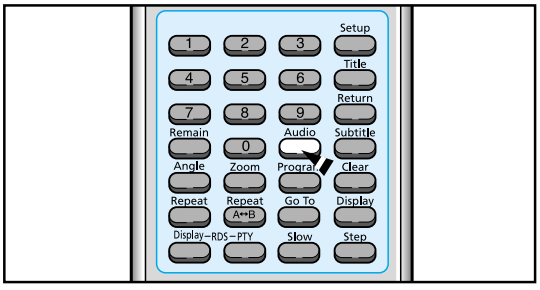
Selecting the Audio Language/Subtitle Language

Selecting the Audio Language

Press the **Audio** button.
- Depending on the number of languages recorded on a DVD disc, a different audio language (ENGLISH, SPANISH, FRENCH etc.) is selected each time the button is pressed.

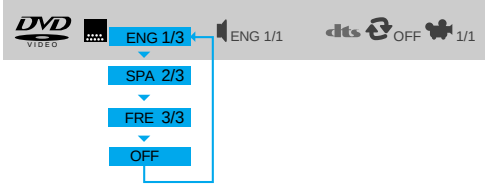


- Depending on the disc, DTS or DIGITAL PRO LOGIC can be selected.
- To listen to DTS audio, connect an amplifier equipped with a DTS decoder to the OPTICAL OUT.

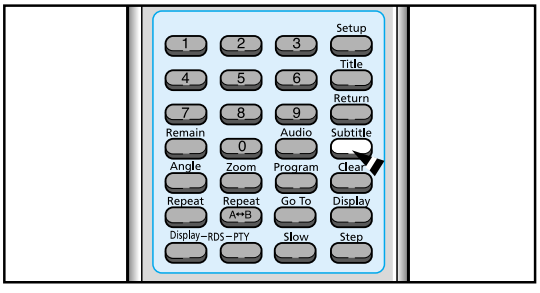


Selecting the Subtitle Language

Press the **Subtitle** button.
- Depending on the number of languages recorded on a DVD disc, a different subtitle language (ENGLISH, SPANISH, FRENCH etc.) is selected each time the button is pressed.
- To make the subtitles disappear, select "OFF".



- If the word ⊘ INVALID appears on the TV screen while buttons are being operated, that operation is not possible with that particular disc.
- Depending on the disc, the audio or subtitle language function may not work.



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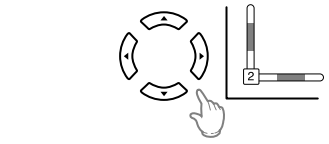
Various DVD Functions

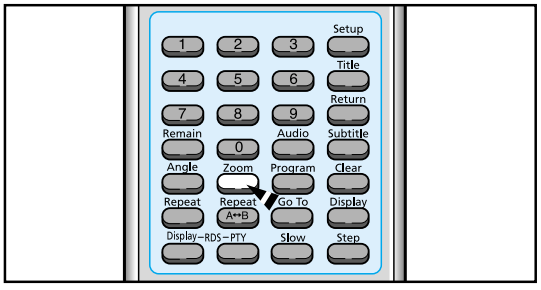
GB

To enlarge an image

Press the **Zoom** button.

- Images can be enlarged 2x and 4x.
- During DVD playback, press the **Zoom** button to zoom in 2X/4X/normal, in that order.
- Press (◀ / ▶ / ▲ / ▼) to move the enlarged portion you want to watch.

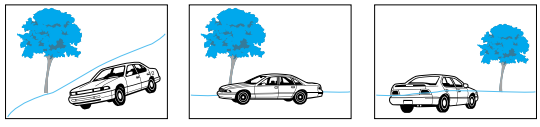


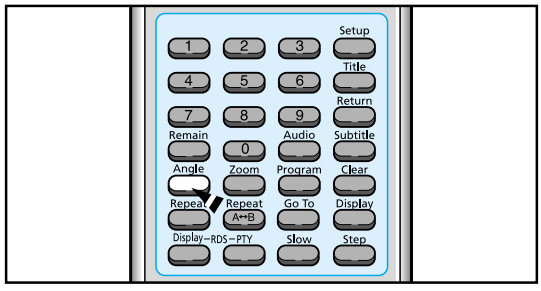


Selecting the desired Screen Angle

Press the **Angle** button.

- This function only works with discs on which multiple angles have been recorded.
- During playback, press the **Angle** button to select the desired angle in 1/3, 2/3, 3/3, normal, in that order.





CD-R/RW playback compatibility

- Your DVD player can also play CD-R and CD-RW discs recorded in digital audio format. When recording your own CD-R or CD-RW discs, make sure that the recording session is properly terminated, or they will not be playable. (Depending on disc properties and recording quality, some CD-R/RW may not be playable.)
- CD-RW has a lower reflection rate than CD-R media and consequently it will take a longer to read CD-R discs.
- CD-RW discs recorded at high speed tend to be difficult for the DVD player to read. If the recording speed for the CD-RW disc is not predetermined, write it at low speed.

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MP3 Playback

GB

This system is incorporated with an MP3 decoder. You can play back MP3 tracks (files)recorded on CD-Rs,CD-RWs,and CD-ROMs.

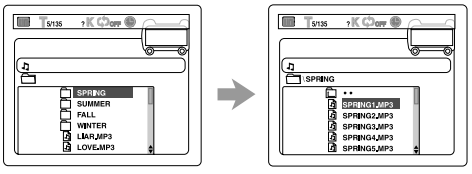
Starting Playback

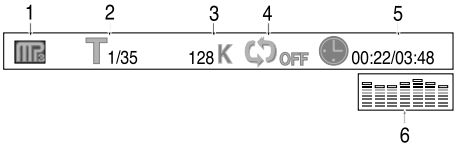
- It is recommended to turn on your TV when playing back an MP3 disc.

1 Press the **Open/Close**(▲) button to load a disc.

2 Press the **Play/Pause**(▶II) button.

- After detecting the disc, playback starts.
- The on-screen bar and the contents recorded on the MP3 disc will be shown on the TV if it is turned on.





1 : Disc type
DVD VCD CD MP3

2 : Current track (file) and total number of the tracks on the disc
- Ex.: 1st track is playing out of 35 tracks recorded.

3 : Bit rate
- Ex.: Bit rate used for recording the loaded disc is 128 Kbps. (See below)

4 : Repeat mode indicator
- Ex.: When repeat mode is turned off.

5 : Elapsed playing time and the total playing time of the current track

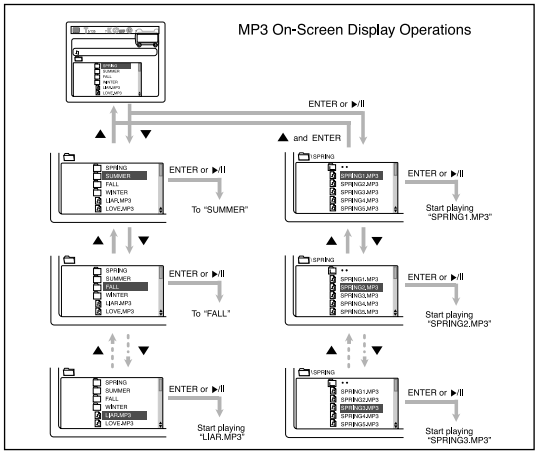
6 : Sound indication
- Indicates sound input level. (Only appears during playback.)

To stop during playback

Press the **Stop** (■) button.

Operations Using the On-Screen Display

- It is recommended to turn on your TV when playing back an MP3 disc.
- When the loaded MP3 disc is recognized, the following on-screen display appears on the TV screen.
  (The contents of this on-screen display varies according to the disc —the way MP3 tracks were recorded on the disc.)



Button	To do
ENTER, ▶II	Start playback or go into a directory.
▲/▼	Select a track or directory.

What is MP3?

MP3 is an abbreviation of Motion Picture Experts Group (or MPEG) Audio Layer 3. MP3 is simply a file format with a data compression ratio of 1:10 (128 Kbps*).
That means,by using MP3 format, one CD-R or CD-RW can contain 10 times as much data volume as a regular CD can.
*Bit rate is the average number of bits that one second of audio data will consume. The measuring unit used is Kbps (1000 bits per second).
To get a better audio quality, choose a higher bit rate. The most popular bit rate for encoding (recording)is 128 Kbps.

MP3 File Compatibility

- This system can only read MP3 files that are recorded in the format that is compliant with ISO 9660 Level 1 or Level 2.
- The system can read or play MP3 files only with the extension code —".mp3 ".
- ID3*tags cannot be shown on the display.
  *An MP3 file can contain file information called "ID3 Tag " where its album name, performer, rack title, etc. are recorded.

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System Setup

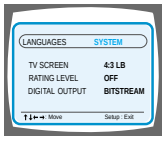
GB

You can use the DVD player's Setup function to select the TV screen ratio, rating limit, or digital output mode.

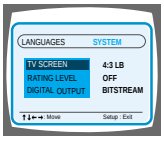
To Set up the System

1 From the stop mode, press the **Setup** button.

2 Press the **Left/Right** (◀ / ▶) button to select the system.

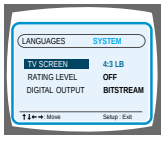


3 Press the **Up/Down** (▲ / ▼) button to select the desired item.

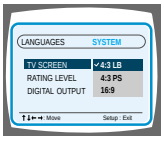


4 Press the **Enter** button or **Right** (▶) button.

- Move to the detailed items.
- Then press the **Left** (◀) button to return to the previous step.

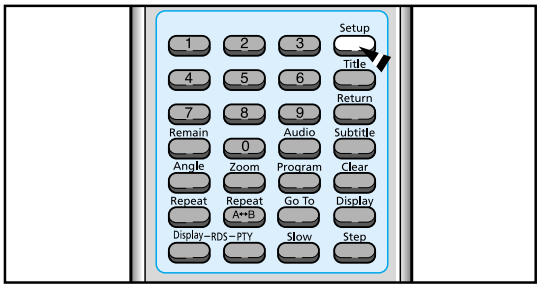


5 Press the **Up/Down** (▲ / ▼) button to select the desired sub-item and then press the **Enter** button.



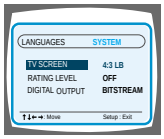
To End the System Setup

- Press the **Setup** button again.



TV SCREEN(TV SCREEN RATIO)

Select when you want to watch a 16:9 screen ratio DVD movie on a TV with a 4:3 ratio screen.



4:3LB - You can see the full 16:9 picture, but black bars will appear at the top and bottom of the screen.

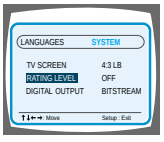
4:3PS - You can only view the central portion of the 16:9 screen.

16:9 - You can view in wide screen but the top and bottom of the picture will be cut off.

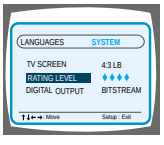
- However if the movie is recorded in 4:3 ratio, you cannot view the full 16:9 picture with the above functions.

RATING LEVEL

The Rating Level function works in conjunction with DVDs which have been assigned a rating, to help control the type of DVD that your family watches.

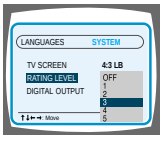


1 Select RATING LEVEL, then press the **Enter** button.



2 Use the number(0~9) buttons to input a 4-digit password.

- The player's password is set to "7890" by default.



3 Use the **Up/Down** (▲ / ▼) button to select either RATING LEVEL or NEW PASS-WORD, and then press the Enter button.

- There are up to 8 rating levels on a disc.
- If LEVEL 6 is selected, a disc which contains rating LEVEL 7 and above cannot be played.
- If you select NEW PASSWORD, the screen changes and enables you to enter the new password.

When the rating level password has been forgotten

While the player is in the stop mode, hold the Mono/ST button down on the main unit for more than 5 seconds.

- "INITIAL" appears on the display and all default settings will return to Factory Preset.
- Press the On/Standby (⏻/❙)button.

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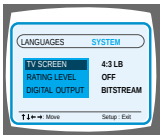
System Setup (Cont'd)

GB

DIGITAL OUTPUT



BITSTREAM Select this if Dolby Digital 5.1 CH connections have been made.

- Sends a digital signal that carries the Dolby Digital 5.1 or DTS multichannel information to your external decorder.

LPCM Select this otherwise.

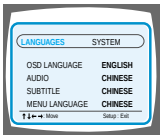
- Sends a linear PCM(Pulse Code Modulation), or 2 channel stereo signal, to your A/V receiver.

Setting up the Language Features

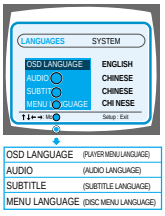
Using the DVD player's Setup function, you can customize the Menu Language, Subtitle Language, and Disc Menu Language.

To set up the language feature

1 Press the **Setup** button from the stop mode.

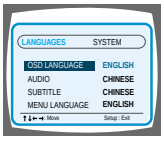


2 Press the **Up/Down** (▲/▼) button to select the desired item.

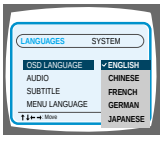


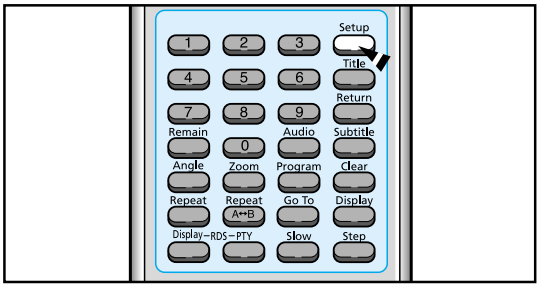
3 Press the **Enter** button or **Right** (▶) button.

- Move to the language features.
- Then press the **Left** (◀) button to return the previous step.



4 Press the **Up/Down** (▲/▼) button to select the desired language and then press the **Enter** button.





To End the Language Features Setup

➢ ♦ Press the **Setup** button again.

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Searching for and Storing the Radio Stations

You can store up to:

- 15 FM stations
- 8 MW stations
- 7 LW stations

1 Switch the system on by pressing **On/Standy (⏻)**.

2 Select the required frequency band by pressing **TUNER/Band** again.
Result: The appropriate indication is displayed:

♦ **FM**	Frequency Modulation
♦ **AM(MW)**	Medium Wave
♦ **LW**	Long Wave

3

To search for a station...	Press Tuning Mode
Manually	One or more times until **MANUAL** is displayed.
Tuning in to a Preset Station	until "**PRESET**" is displayed

➢ PRESET function is explained in detail in the section "Selecting a Stored Station" on.

4 Select the station to be stored by:

- ♦ Pressing ◀◀ or ▶▶ buttons to increase or decrease the frequency respectively.
- ♦ If performing automatic tuning, press and hold ◀◀ or ▶▶ button. "**AUTO**" is displayed and the search automatically stops at the frequency of a receivable station.
- ♦ The automatic search procedure may stop on a frequency that does not correspond to a radio station. If this happens, use the manual search mode.

5 If you do not want to store the radio station found, revert to Step **4** and search for another station.
Otherwise:

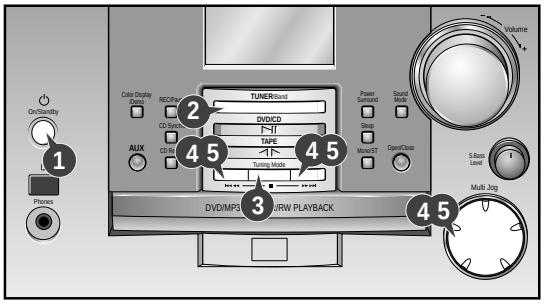
a Press **Program**.
Result: **PROG** and the program number are displayed.

b Press ⏮ or ⏭ to assign a program number between 1 and 15.

c Press **Program** to store the radio station.
Result: **PROG** is no longer displayed and the station is stored.

6 To store any other radio frequencies required, repeat Steps **3** to **5**.

➢ ♦ The PROGRAM function can be used to assign a new station to an existing program number.



Selecting a Stored Station

GB

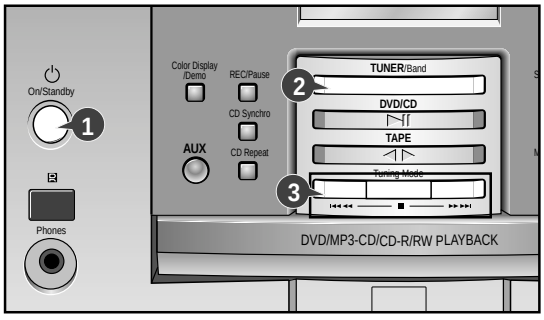
You can listen to a stored radio station as follows:

1 Switch the system on by pressing **On/Standby (⏻)** .

2 Select the required frequency band by pressing **TUNER/Band** on the front panel.

3 Select the radio station as follows.

To listen to ...	Press ...
Stored station	1. the **Tuning Mode** button until "**PRESET**" is displayed. 2. ⏮ or ⏭ button to select the required program.

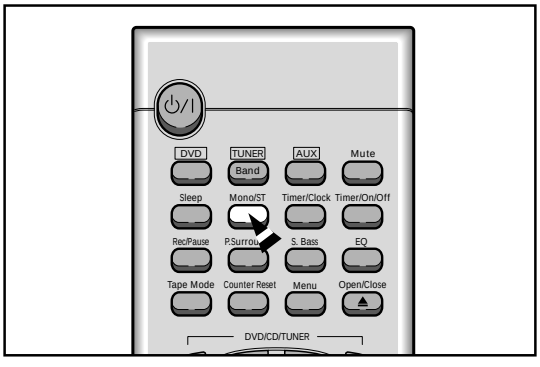


Improving Radio Reception

You can improve the quality of radio reception by:

- ♦ Rotating the FM or AM(MW) aerial

➢ If reception from a specific FM radio station is poor, press **Mono/ST** to switch from stereo mode to mono. The quality of the sound will be improved.



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About RDS broadcasting

This unit has the RDS (Radio Data System) function, which enables for the various information such as broadcasting station, radio text, time and 30 types of programs (News, Rock, Classic, etc.) to be received from the FM RDS station together with normal radio signal.

1 Press the **On/Standby (⏻)** button.

2 Receive the FM radio.
- See the radio receiving method on the **page 23**.
- FM and frequency are shown on the display
- If the received station transfers the RDS information, 'RDS' appears automatically on the display.

3 Press the **RDS Display** button to select the desired RDS mode.
- Whenever the button is pressed, RDS mode changes as follows.

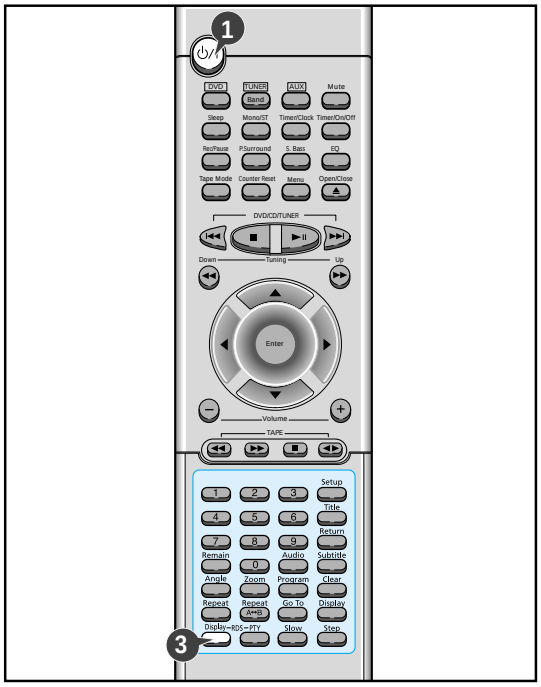
PS NAME → RT → CT → Current FM frequency

- The RDS function is available only in **FM** broadcasting.

Description on RDS function

1. **PTY**(Program Type) : Displays the type of programme currently being broadcast
2. **PS NAME**(Program Service Name) : Indicates the name of broadcasting station and is composed of 8 characters.
3. **RT**(Radio Text) : Decodes the text broadcast by a station (if any) and is composed of maximum 64 characters.
4. **CT**(Clock Time) : Decodes the real time clock from the FM frequency.

   Some stations may not transmit PTY, RT or CT information therefore this may not be displayed in all cases.
5. **TA**(Traffic Announcement) : When this symbol flashes it shows that the traffic announcement is in progress.



About RDS DISPLAY function

About "PS NAME" MODE

Displays the name of broadcasting station.

Press the **RDS Display** button to select the PS NAME.
- "**PS NAME**" appears on the display.
- If the PS information is being received, the PS name (BBC, AFO, NDR, etc.) is shown on the display.
- If the PS information isn't received, the original FM frequency is shown.

Even though no **RDS Display** button is pressed, the reception of PS information ensues the PS name is displayed.

About 'RT' MODE

Displays the character transmitted from the broadcasting station.

Press the **RDS Display** button to select the RT MODE.
- "**RT**" appears on the display.
- If the RT information is being received, the received information is shown on the display.
- If the RT information isn't received, the "**NO RT**" is shown. On the display.

About CT(Clock Time)

Sets the time of RDS clock.

To select the CT time, set the **RDS Display** button to CT MODE.

- The CT information will take up to 2 minutes to be decoded therefore the clock isn't displayed immediately.
- If there is no received CT information, "**NO CT**" is displayed.

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PTY(Program Type) indication and PTY-SEARCH function

GB

◆ The PTY information is composed of an identification symbol, which helps the FM radio to recognize the program type of each FM station.

◆ The below 30 PTY information is shown on the display by pressing the Pty button.

Display	Program Type
NEWS	• *News including an announced opinion and report*
AFFAIRS	• *Several matters including a current incident, documentary, discussion and analysis.*
INFO	• *Information including weights and measures, returns and forecast, matters interesting the customer, medical information, etc.*
SPORT	• *Sports*
EDUCATE	• *Education*
DRAMA	• *Drama-Radio serial, etc.*
CULTURE	• *Culture-National or local culture including the religious problem, social science, language, theater,etc.*
SCIENCE	• *Natural science and technology*
VARIED	• *Others-Speech, amusing program (quiz, game), interview, comedy and satirical play, etc.*
POP M	• *Pop music*
ROCK M	• *Rock music*
M.O.R.M	• *M.O.R- Comfortable music, occasionally vocal or piece*
LIGHT M	• *Light classical music- Classical music and instrumental and chorus music*
CLASSIC	• *Heavy classical music-Orchestra music, symphony, chamber music and opera*
OTHER M	• *Other music - Jazz, R&B country music*
WEATHER	• *Weather*
FINANCE	• *Finance*
CHILDREN	• *Children's programmes*
SOCIAL A	• *Social affairs*
RELIGION	• *Religion*
PHONE IN	• *Phone in*
TRAVEL	• *Travel*
LEISURE	• *Leisure*
JAZZ	• *Jazz Music*
COUNTRY	• *Country Music*
NATIONAL M	• *National Music*
OLDIES	• *Oldies Music*
FOLK M	• *Folk Music*
DOCUMENT	• *Documentary*
TEST	• *Alarm Test*

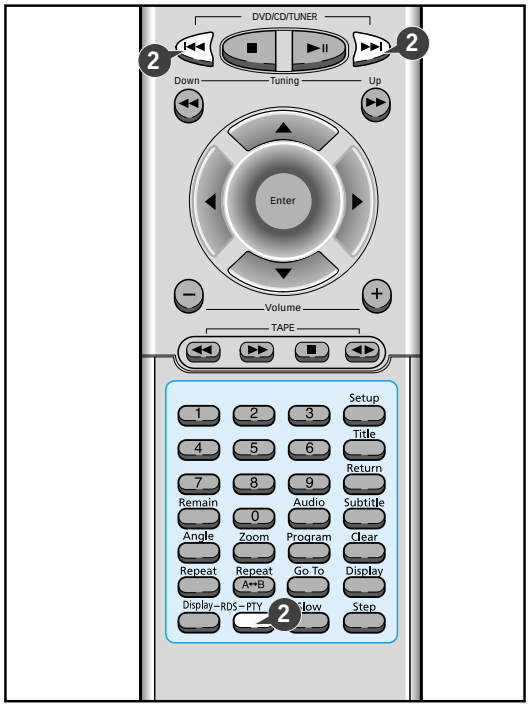
About PTY-SEARCH

1 Receive the FM radio.
- ♦ See the radio receiving method on the **page 23**.
- ♦ The FM and frequency appear on the display.
  - ♦ If the received station is transmitting the RDS information, **"RDS"** lights up.

2 Press the **PTY** button.
- ♦ The PTY MODE(NEWS, AFFAIRS, etc.) appears on the display.
- ♦ Press the TUNING ⏮ or ⏭ button to select the desired PTY MODE.

- ♦ If the station is transmitting no PTY information, 'NO PTY' lights on the display.
- ♦ When the PTY MODE is selected(The PTY MODE is shown on the display), press the PTY KEY once again to convert into PTY-SEARCH MODE and auto-search the station sequentially.
- ♦ If the PTY MODE received in the course of auto-search agrees with the selected PTY MODE, the auto-search stops and the PTY-SEARCH is finished.

If the PTY MODE which agrees with the PTY MODE selected in the course of auto-search, isn't received, it is returned to the first frequency at beginning the PTY SEARCH and the auto-search and PTY SEARCH are suspended.



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Listening to a Cassette

➢ ♦ Always treat your cassettes with care; refer, if necessary, to the section entitled "**Precautions When Using Audio Cassettes**" on page 32.

1 Switch the system on by pressing **On/Standby (⏻)**.

2 Open the cassette deck by pushing on the corner of the cover marked **Push Eject (⏏)** until you hear a click and then releasing it.
♦ Insert the pre-recorded cassette with the open edge of the tape facing downwards.

3 Close the deck by pushing on it until it clicks into place.

4

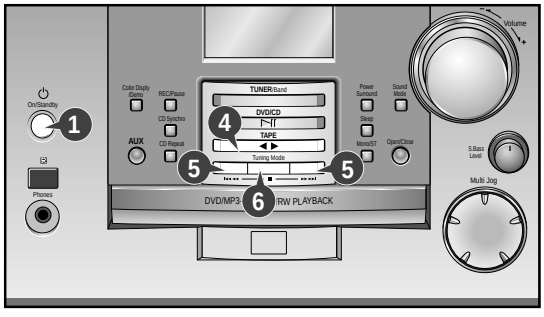
To listen to...	Press ...
Side A	Tape (◄►) button once.
Side B	Tape (◄►) button twice.

Result: The cassette starts playing.

5 Press the ◄◄ , ►► button if necessary.

To...	Press ...
Rewind the cassette	◄◄ button.
Fast-forward the cassette	►► button.

6 When you have finished playback, press ■ button.

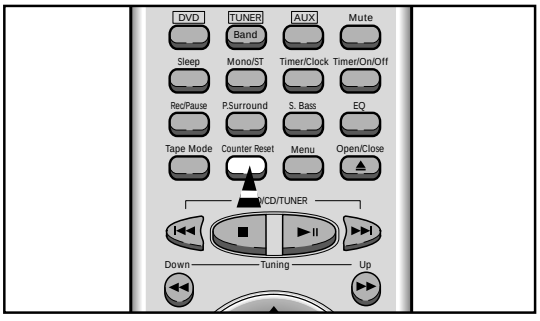


Tape Counter

When playing a cassette in one of the cassette decks, a counter is displayed to enable you to take note of the counter value at the start of each track to start playback at the beginning of the track to which you wish to listen.

➢ Before starting to record a cassette for which you wish to take note of the counter values at the beginning of each track, reset the counter by pressing Counter Reset on the front panel.

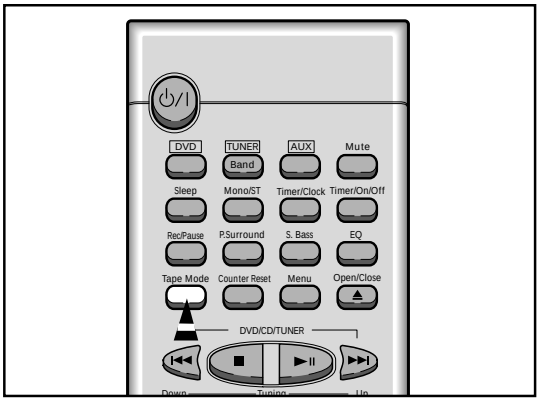
➢ Each cassette deck has a separate counter.



Selecting the Cassette Playback Mode

Your micro component system has three cassette playback modes which enable you to listen to both sides of a cassette automatically.
Press Tape Mode until the appropriate symbol is displayed.

When the display indicates...	The micro component system plays back...
▮▮	One side of the selected cassette and then stops.
▮▮ ↻	One side of the cassette. The other side of the cassette and then stops.
↻	Both sides of the cassette indefinitely until you press stop.



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Recording a Compact Disc

You can record a compact disc on a cassette in two different ways:

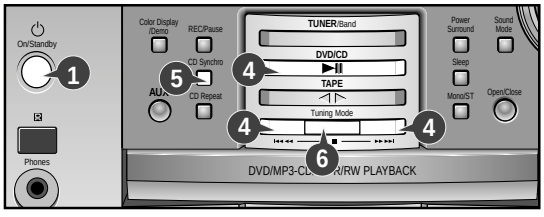
- Synchronised recording
- Direct recording

➢ If the REC button is pressed while playing back a 5.1 channel encoded DVD, no sound will be output from the center and rear speakers.

Synchronised recording

This feature enables you to synchronize the start of the recording with the start of the disc or track of your choice.

1. Switch the system on by pressing **On/Standby (⏻)** .
2. Insert a blank cassette in Deck.
3. Load a compact disc.
4. Press the **DVD/CD**(►II) button.
   - Use the CD selection (⏮ , ⏭) buttons to select the desired song.
5. Press the **CD Synchro** button on the remote control.
   - When stopped, press the button to start the recording from the first piece of music.
   - Press CD Synchro button on the remote control.during the playback of CD to start the recording from the first part of the music being played.
6. To stop recording, press ■ button.

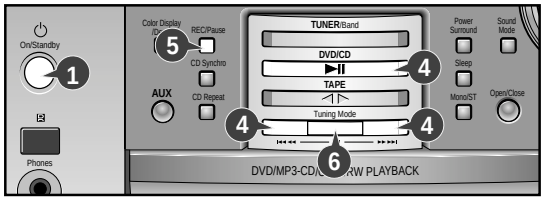


Direct recording

The direct recording mode enables you to start recording with any track on the compact disc.

- You do not need to adjust the volume, as it has no effect on the recording.

1. Switch your system on by pressing **On/Standby (⏻)** .
2. Insert a blank cassette in Deck.
3. Load a compact disc.
4. Press the **DVD/CD**(►II) button.
   - Use the CD selection (⏮ , ⏭) buttons to select the desired song.
5. Press the **REC/Pause** button.
   Result: Recording will begin.
6. To stop recording, press ■ button.



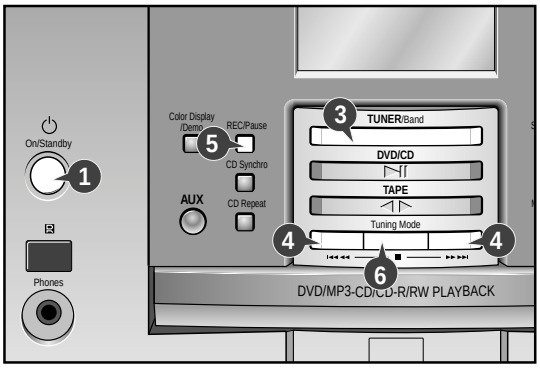
Recording a Radio Program

GB

You can record a radio program of your choice.

- You do not need to adjust the volume, as it has no effect on the recording.

1. Switch the system on by pressing **On/Standby (⏻)** .
2. Insert a blank cassette in Deck.
3. Select the TUNER function by pressing **TUNER/Band**.
4. Select the radio station that you wish to record by pressing ⏮ or ⏭ button .
5. Press **REC/Pause.**
   Result: **REC** is displayed in red and recording starts.
6. To stop recording, press ■ button.



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Timer Function

GB

The timer enables you to switch the system on or off at specific times.

Example: You wish to wake up to music every morning.

➢ If you no longer want the system to be switched on or off automatically, you must cancel the timer.

☛
- Before setting the timer, check that the current time is correct.
- For each step, you have a few seconds to set the required options. If you exceed this time, you must start again.

1 Switch the system on by pressing **On/Standby (⏻)** .

2 Press **Timer/Clock** until ◷ **TIMER** is displayed.

3 Press **Enter**.
Result: **ON TIME** is displayed (instead of the equalizer symbols) for a few seconds, followed by any switch-on time already set; you can set the timer switch-on time.

4 Set the timer switch-on time.
- **a** Set the hour by pressing ◄ or ► button.
- **b** Press **Enter**.
  Result: The minutes flash.
- **c** Set the minutes by pressing ◄ or ► button.
- **d** Press **Enter**.
  Result: **OFF TIME** is displayed (instead of the equalizer symbols) for a few seconds, followed by any switch-off time already set; you can now set the timer switch-off time.

5 Set the timer switch-off time.
- **a** Set the hour by pressing ◄ or ► button.
- **b** Press **Enter**.
  Result: The minutes flash.
- **c** Set the minutes by pressing ◄ or ► button.
- **d** Press **Enter**.
  Result: **VOL 10** is displayed, where **10** corresponds to the volume already set.

6 Press ◄ or ► button to adjust the volume level and press **Enter**.
Result: The source to be selected is displayed.

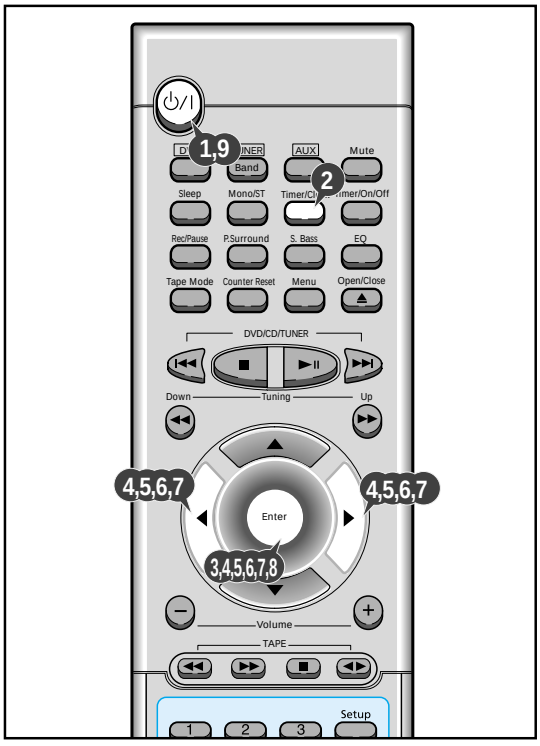
7 Press ◄ or ► button to select the source to be played when the system switches on.

If you select...	You must also...
TAPE (cassette)	Insert a cassette tape.
TUNER (radio)	**a** Press **Enter**. **b** Select a preset station by pressing **Tuning** ◄ or ► .
CD (compact disc)	Load a compact disc.

8 Press **Enter** to confirm the timer.

9 Press **On/Stanby (⏻)** to set the system to standby mode.
Result: ◷ is displayed to the bottom right of the time, indicating that the timer has been set. The system will switch on and off automatically at the required times.

➢
- If the timer switch on and off times are identical, the word **ERROR** is displayed.
- You can also use **Multi Jog** to instead ◄ or ► button in step 4, 5, 6, 7.

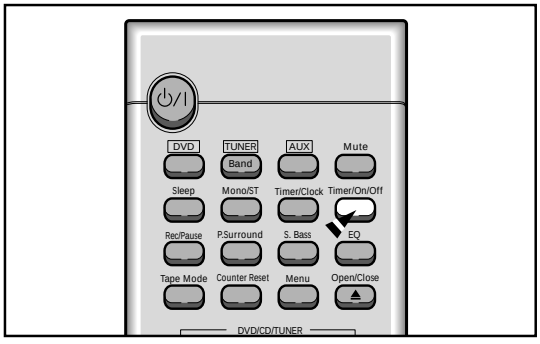


Canceling the Timer

After having set the timer, it will start automatically as shown by the TIMER indication on the display. If you no longer wish to use the timer, you must cancel it.

➢ You can stop the timer at any time (system on or in standby mode).

To...	Press Timer On/Off...
Cancel the timer	Once. Result: ◷ is no longer displayed.
Restart the timer	Twice. Result: ◷ is displayed again.



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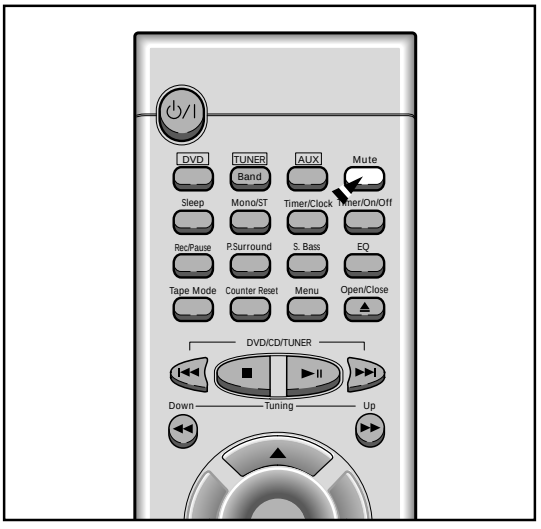
Mute Function

You can turn the sound off temporarily on your system.
Example: You wish to answer a telephone call.

1 Press **Mute**.

2 To switch the sound back on (at the same volume as before), press **Mute** again or the **Volume** buttons.

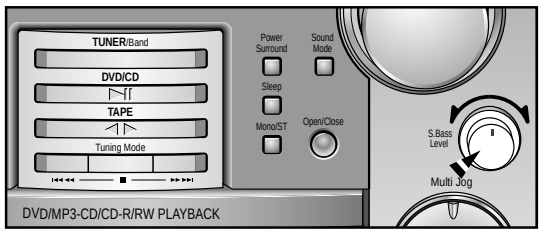


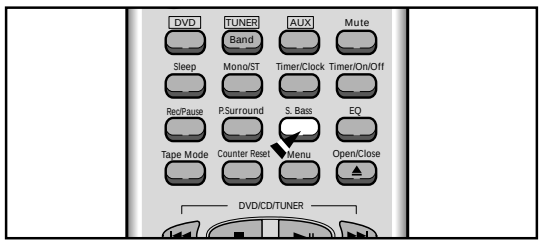
S. Bass Function

S.Bass function emphasizes the bass sound to produce the effect of explosion or booms.

Turn the **S.Bass Level** knob.

- Turn the knob clockwise or counterclockwise to switch between OFF ↔ S.BASS 1 ↔ S.BASS 2 ↔ S.BASS 3.
- Select the desired level for the bass.
- To operate from the remote control unit, press **S.Bass** button to select the desired mode.





Selecting an Equalizer Preset

Your micro component system is equipped with a preset equalizer that allows you to choose the most appropriate balance between treble and bass frequencies, according to the type of music you are listening to.
The function of Power Sound amplifies bass and improves high key or bass twice as much for you to appreciate powerful real sound.

Press **Sound Mode** on the front panel until the required option is selected.

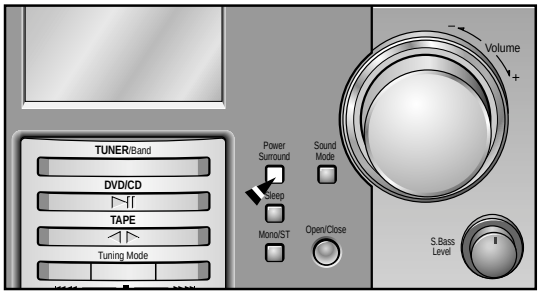
➢ Press the button repeatedly to select "**PASS→ POP → ROCK → CLASSIC** ".

Power Surround

This machine is equipped with the function of Power Sound which amplifies bass treble output to twice as much for powerful real sound.

1 Press the **Power Surround** button.
- Press the button repeatedly to select "P. SURR → OFF".

2 To cancel this function, perss **Power Surround** button again.



➢ When playing a 5.1 channel encoded DVD, the EQ, S.Bass, and Power Surround functions cannot be selected because the original sound is reproduced.

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Setting the System to Switch off Automatically

While listening to a compact disc or a cassette, you can set the system to switch off automatically
Example: You wish to go to sleep to music.

1 Press **Sleep**.
Result: The following indications are displayed:

90 MIN

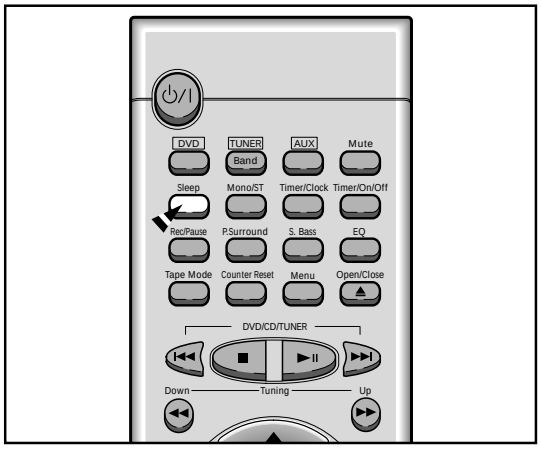
2 Press **Sleep** one or more times to indicate how long the system should continue playing before it switches off:

90 MIN → 60 MIN → 45 MIN → 30 MIN → 15 MIN → OFF

➢ At any time, you can:

- Check the remaining time by pressing **Sleep**
- Change the remaining time by repeating Steps **1** and **2**

3 To cancel SLEEP function, press **Sleep** one or more times until **OFF** is display.

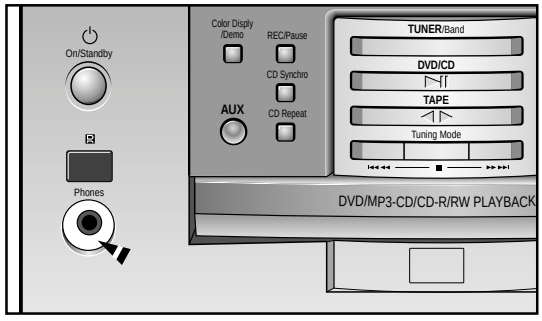


Connecting Headphones

You can connect a set of headphones to your micro component system so that you can listen to music or radio programmers without disturbing other people in the room. The earphones must have a 3.5ø jack or an appropriate adapter.

Connect the headphones to the **Phones** jack on the front panel.
Result: The loudspeakers are no longer used to output the sound.

☛ Prolonged use of headphones at a high volume may damage your hearing.



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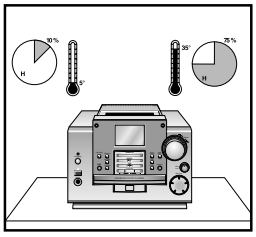
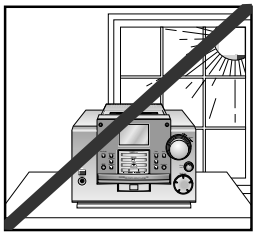
Safety Precautions

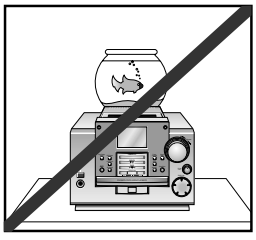
The following diagrams illustrate the precautions to be taken when using or moving your micro component system.



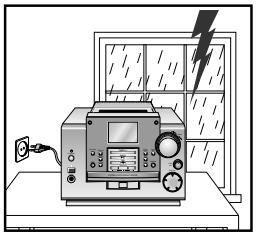
Ambient operating conditions:
Ambient temperature 5°C-35°C
Humidity 10-75%



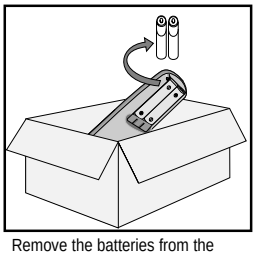
Do not expose the unit to direct sun radiation or other heat sources. This could lead to overheating and malfunction of the unit.



Do not place potted plants or vases on top of the unit. Moisture entering the unit could lead to dangerous electric shock and can cause equipment damage. In such events immediately disconnect the main plug from the socket.

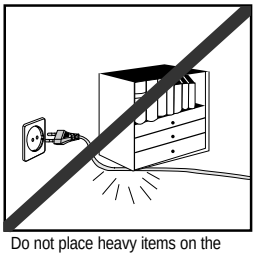


During thunderstorms, disconnect the main plug from the socket. Main voltage peaks due to lightning could damage the unit.

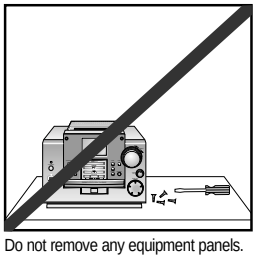


Remove the batteries from the remote control, if not used for any extended period.
Leaking batteries can cause serious damage to the remote control.

When using headphones, take care not to listen at excessive volumes. Extended use of headphones at high volumes will lead to hearing damage.



Do not place heavy items on the main lead. Main cable damage can lead to damage of the equipment (fire hazard) and can cause electric shock.



Do not remove any equipment panels. The inside of the unit contains live components, which cause electric shock.

Cleaning Your Micro Component System

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To obtain the best possible results from your micro component system, you must clean the following elements regularly:

- The outer casing
- The compact disc player
- The cassette players (heads, rollers and drive capstans)

☛ Always unplug the system from the wall outlet:
- Before cleaning it
- If you are not going to be using it for a long time

Outer Casing

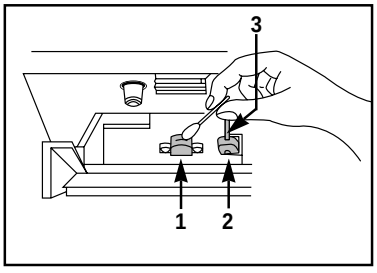
Clean the outer casing regularly using a soft cloth and a light detergent. Do not use abrasive powders, liquids or aerosol cleaners. Never let any liquids get into the system.

Compact Disc Player

1. Before playing a compact disc, clean it with a special CD cleaning agent. Do not use the same cleaning agents as for vinyl LP records. Carefully wipe the disc from the centre outward.
2. Regularly clean the player with a special cleaning disc (available from your local dealer).

Tape Decks

1. Press **Push Eject**(⏏) to open the cassette deck.
2. Use a cotton bud and a special cassette cleaning agent to clean the:
   - Head (1)
   - Rollers (2)
   - Drive capstans (3)



☛
- If you will not be using the remote control for a long time, remove the batteries to prevent corrosion.
- Although your system is very hard-wearing, it should not be used in an excessively dusty environment or subjected to shocks or extreme heat (close to heating appliances or in direct sunlight, etc.).
- If the unit emits an unpleasant odor when in use, unplug it from the main supply and contact the after-sales service.

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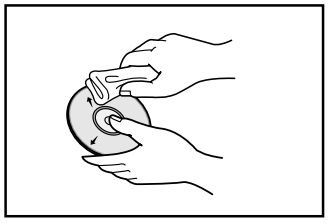
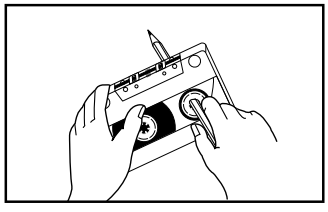
Precautions When Using Compact Discs

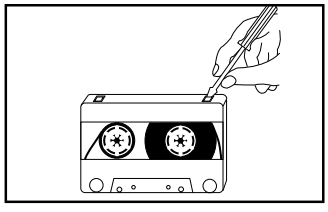
- Handle your compact discs with care. Always hold them by the edges to avoid leaving fingerprints on the shiny surface.
- When you have finished playing a compact disc, always put it back in its case.
- Do not fix paper or adhesive tape to the discs and do not write on the label.
- Clean them with a special-purpose cloth.
- Store your compact discs in a clean place, out of direct sunlight, where they will not be exposed to high temperatures.
- Always use compact discs marked .

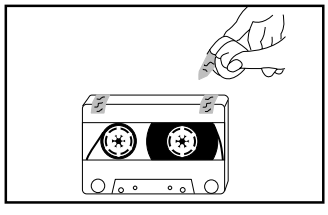


Precautions When Using Audio Cassettes

- Check that the tape in the cassette is sufficiently taut.
- To prevent erasing a cassette that you wish to keep, remove the safety tab on the upper edge of the cassette. To record a cassette, where the tab has been broken, simply cover the opening with adhesive tape.
- When you have finished playing a cassette, always put it back in its case.
- Store your cassettes in a clean place, out of direct sunlight, where they will not be exposed to high temperatures.
- Avoid using 120-minute cassettes as they place unnecessary strain on the tape mechanism.







Before Contacting the After-Sales Service

It always takes a little time to become familiar with a new appliance. If you have any of the problems listed below, try the solutions given. They may save you the time and inconvenience of an unnecessary service call.

	Problem	Checks/Explanation
GENERAL	The system does not work	• *The main lead is not correctly plugged into a wall socket or the wall socket is not switched on.* • *The remote control batteries need replacing or the polarity has not been respected.* • *The **On/Standby** button has not been pressed.*
	There is no sound	• *The volume has been completely turned down.* • *The correct function (TUNER, CD, TAPE, AUX) has not been selected.* • *You have connected a set of earphones.* • *The loudspeaker wires have been disconnected.* • *The **Mute** button has been pressed.*
	The Timer does not work	• *The timer has been stopped by pressing **Timer On/Off**.*
	In case it does not work, even the action is taken as above.	• *Press the **Sound Mode** button for 5 seconds in power 'OFF'(standby), then it is returned the original position (RESET)*
CD/DVD	The compact disc player does not start playing	• *The CD function has not been selected.* • *The disc has been inserted face down or is either dirty or scratched.* • *The laser sensor is dirty or dusty.* • *The system has not been installed on a flat, horizontal surface.* • *Condensation has formed in the player; leave the system in a warm, airy room for at least one hour.*
	When playing a DTS, DVD disc, no sound is produced.	• *Since this product incorporates tech-nology, no sound will be output directly from the main unit.* • *To listen to DTS sound, connect an amplifi-er equipped with a DTS decoder to the digi-tal output (OPTICAL OUT).*
CASSETTES	The tape does not start playing	• *The TAPE function has not been selected.* • *The cassette has not been inserted correctly.* • *The cassette player has not been closed.* • *The tape is either slack or broken.*
	The volume falls off The cassette is not erased correctly There is excessive wow and flutter	• *The audio heads are dirty.* • *The rollers or drive capstans are dirty.* • *The tape is worn.*
RADIO	Reception is poor or no radio stations are received at all	• *The TUNER function has not been selected.* • *The radio frequency has not been correctly selected.* • *The aerial has been disconnected or is not facing the right way. Turn it until you find the best orientation.* • *You are in a building that blocks radio waves; you must use an outside aerial.*

If the above guidelines do not allow you to solve the problem, take a note of:

- The model and serial numbers, normally printed on the rear of the system
- Your warranty details
- A clear description of the problem

Then contact your local dealer or SAMSUNG after-sales service.

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Technical Specifications

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SAMSUNG strives to improve its products at all times. Both the design specifications and these user instructions are thus subject to change without notice.

RADIO	
LW	
Usable sensitivity	60 dB
AM (MW)	
Signal/noise ratio	40 dB
Usable sensitivity	54 dB
Total harmonic distortion	2 %
FM	
Signal/noise ratio	62 dB
Usable sensitivity	3 dB
Total harmonic distortion	1.0 %
COMPACT DISC PLAYER	
Frequency range	20 Hz - 20 KHz (± 1 dB)
Signal/noise ratio	80 dB (at 1 KHz) with filter
Distortion	0.05 % (at 1 KHz)
Channel separation	70 dB
Disc sizes	Diameter: 120 or 80 mm. Thickness: 1.2 mm
TAPE DECK	
Frequency range	125 Hz ~ 10 KHz
Signal/noise ratio	40 dB
Channel separation	35 dB
Erasing effect	60 dB
AMPLIFIER	
Output power	
♦ Main(6 Ω)	2 X 12 Watts RMS (total harmonic distortion : 10%)
♦ Center(6 Ω)	12 Watts RMS (total harmonic distortion : 10%)
♦ Rear(6 Ω)	2 X 12 Watts RMS (total harmonic distortion : 10%)
♦ Subwoofer(4 Ω)	2 X 28 Watts RMS (total harmonic distortion : 10%)
Channel separation	45 dB
Signal/noise ratio	72 dB
GENERAL	
Dimensions	240(W) x 177 (H) x 322(D) mm

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Note on Terminology

ANGLE	Recorded onto some DVD discs are scenes which have been simultaneously shot from a number of different angles (the same scene is shot from the front, from the left , from the right , etc.). With such discs, the Angle button can be used to change the angle of view for specific scenes.
CHAPTER NUMBER	These numbers are recorded on DVD discs. A Title is subdivided into many sections, each of which is numbered, and specific parts of the video can be searched quickly using these numbers.
DVD	A high-density optical disc on which high-quality pictures and sound have been recorded by means of digital signals. Incorporating a new video compression technology (MPEG-2) and high-density recording technology, a DVD disc comprises two 0.6 mm thick discs bonded together.
PCM	An acronym for Pulse Code Modulation - another name for digital audio.
PBC (PLAYBACK CONTROL)	This is recorded on a video CD (version 2.0). Selected scenes or information can be chosen from the menu displayed on the TV monitor.
REGION NUMBER	Both the DVD player and DVD discs are encoded with a region number. If the region number on the DVD disc does not correspond to the region number of the DVD player, the player cannot play the disc.
SUBTITLES	Translated appearing at the bottom of the screen. A DVD disc can contain up to 32 subtitle languages.
TITLE NUMBER	These numbers are recorded on DVD discs. When a disc contains two or more movies, these movies are numbered as Title 1, Title 2, etc.
TRACK NUMBER	These numbers are assigned to the tracks which are recorded on video and audio CDs. They enable specific tracks to be located quickly.
VIDEO CD	Contains recordings of pictures and sound whose quality is roughly comparable to that of video tape. This player also supports video CDs with playback control (version 2.0).
DIGITAL dts SURROUND	You can enjoy 5.1 (or 6) channels of high fidelity digital sound from various digital input sources such as laser discs, DVD, CD etc. DTS provides a realistic, clear surround sound that has not previously been available from conventional surround sound.
DOLBY DIGITAL	5.1 (or 6) Channel Digital Surround sound reproduced from DVDs and LDs recorded as a digital signals (with DOLBY DIGITAL disc marking). With better sound quality, dynamic range, and directionality than the traditional Dolby surround technology, you can enjoy the dynamic realistic sound.
PRO LOGIC	A 4 channel analog sound reproduced from a program source such as a video-tape or LD with the DOLBY PRO LOGIC mark. You can enjoy a more realistic, robust sound unavailable from regular stereo sources.

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